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Computer Vision: A Modern Approach - David A. Forsyth 2015-01-23

Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering. This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods.

Winning the Right Game Ron Adner 2021-10-05

How to succeed in an era of ecosystem-based disruption: strategies and tools for offense, defense, timing, and leadership in a changing competitive landscape. The basis of competition is changing. Are you prepared? Rivalry is shifting from well-defined industries to broader ecosystems: automobiles to mobility platforms; banking to fintech; television broadcasting to video streaming. Your competitors are coming from new directions and pursuing different goals from those of your familiar rivals. In this world, succeeding with the old rules can mean losing the new game. *Winning the Right Game* introduces the concepts, tools, and frameworks necessary to confront the threat of ecosystem disruption and to develop the strategies that will let your organization play ecosystem offense. To succeed in this world, you need to change your perspective on competition, growth, and leadership. In this book, strategy expert Ron Adner offers a new way of thinking, illustrating breakthrough ideas with compelling cases. How did a strategy of ecosystem defense save Wayfair and Spotify from being crushed by giants Amazon and Apple? How did Oprah Winfrey redraw industry boundaries to transition from television host to multimedia mogul? How did a shift to an alignment mindset enable Microsoft's cloud-based revival? Each was rooted in a new approach to competitors, partners, and timing that you can apply to your own organization. For today's leaders the difference between success and failure is no longer simply winning, but rather being sure that you are winning the right game.

Issues in Contemporary Orthodontics - Farid Bourzgui 2015-09-03

Issues in Contemporary Orthodontics is a contribution to the ongoing debate in orthodontics, a discipline of continuous evolution, drawing from new technology and collective experience, to better meet the needs of students, residents, and practitioners of orthodontics. The book provides a comprehensive view of the major issues in orthodontics that have featured in recent debates. A broad variety of topics is covered, including the impact of malocclusion, risk management and treatment, and innovation in orthodontics.

Polarized Light in Liquid Crystals and Polymers - Toralf Scharf 2007-01-02

Polarized Light in Liquid Crystals and Polymers deals with the linear optics of birefringent materials, such as liquid crystals and polymers, and surveys light propagation in such media with special attention to applications. It is unique in treating light propagation in micro- and nanostructured birefringent optical elements, such as lenses and gratings composed of birefringent materials, as well as the spatially varying anisotropic structures often found in miniaturized liquid crystal devices.

ToF-SIMS - J. C. Vickerman 2013

Time-of-flight secondary ion mass spectrometry (ToF-SIMS) is the most versatile of the surface analysis

techniques that have been developed during the last 30 years. This is the Second Edition of the first book *ToF-SIMS: Surface Analysis by Mass Spectrometry* to be dedicated to the subject and the treatment is comprehensive

Final Program and Proceedings - 2006

The Chemistry of Inkjet Inks -

Light and Lens - Robert Hirsch 2012-09-10

Light & Lens: Photography in the Digital Age is a groundbreaking introductory book that clearly and concisely provides the instruction and building blocks necessary to create thought-provoking digitally based photographs. It is an adventurous idea book that features numerous classroom-tested assignments and exercises from leading photographic educators to encourage you to critically explore and make images from the photographers' eye, an aesthetic point of view. Acquire a basic foundation for digital photography. *Light and Lens* covers the fundamental concepts of image-making; how to use today's digital technology to create compelling images; and how to output and preserve images in the digital world. Explore the history, theory and methods of digital image-making. *Light and Lens* translates the enduring aesthetics of art photography into the digital realm. You'll view, capture and think about images from a new perspective. Increase your ability to analyze, discuss and write about your own work and the images of others. Learn with exercises and assignments by leading digital educators. Innovative techniques will train your eye to make the strongest visual statement. Solve visual problems and overcome image challenges. Whether you use a digital SLR or a point-and-shoot camera, you'll get new strategies to master composition, design and light. View the full range of the digital terrain with stunning images and commentary by over 190 international artists. Robert Hirsch is a renowned photographer, educator, historian and writer. His book credits include *Photographic Possibilities: The Expressive Use of Ideas, Materials and Processes*; *Exploring Color Photography: From the Darkroom to the Digital Studio*; and *Seizing the Light: A History of Photography*. He has had many one-person shows and curated numerous exhibitions. Hirsch has also conducted many workshops and interviewed eminent photographers of our time. The former executive director of CEPA Gallery, he is now the director of Light Research in Buffalo, New York, and on the Visual Studies faculty of University of Buffalo/The State University of New York.

Optical Measurements for Scientists and Engineers - Arthur McClelland 2018-04-19

An accessible, introductory text explaining how to select, set up and use optical spectroscopy and optical microscopy techniques.

Photographic Possibilities - Robert Hirsch 2001-05-10

First Published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Digital Image Forensics - Husrev Taha Sencar 2012-08-01

Photographic imagery has come a long way from the pinhole cameras of the nineteenth century. Digital imagery, and its applications, develops in tandem with contemporary society's sophisticated literacy of this subtle medium. This book examines the ways in which digital images have become ever more ubiquitous as legal and medical evidence, just as they have become our primary source of news and have replaced paper-

based financial documentation. Crucially, the contributions also analyze the very profound problems which have arisen alongside the digital image, issues of veracity and progeny that demand systematic and detailed response: It looks real, but is it? What camera captured it? Has it been doctored or subtly altered? Attempting to provide answers to these slippery issues, the book covers how digital images are created, processed and stored before moving on to set out the latest techniques for forensically examining images, and finally addressing practical issues such as courtroom admissibility. In an environment where even novice users can alter digital media, this authoritative publication will do much to stabilize public trust in these real, yet vastly flexible, images of the world around us.

Nanomaterials for 2D and 3D Printing - Shlomo Magdassi 2017-06-06

The first book to paint a complete picture of the challenges of processing functional nanomaterials for printed electronics devices, and additive manufacturing fabrication processes. Following an introduction to printed electronics, the book focuses on various functional nanomaterials available, including conducting, semi-conducting, dielectric, polymeric, ceramic and tailored nanomaterials. Subsequent sections cover the preparation and characterization of such materials along with their formulation and preparation as inkjet inks, as well as a selection of applications. These include printed interconnects, passive and active modules, as well as such high-tech devices as solar cells, transparent electrodes, displays, touch screens, sensors, RFID tags and 3D objects. The book concludes with a look at the future for printed nanomaterials. For all those working in the field of printed electronics, from entrants to specialized researchers, in a number of disciplines ranging from chemistry and materials science to engineering and manufacturing, in both academia and industry.

[Droplet Wetting and Evaporation](#) - David Brutin 2015-05-11

Droplet Wetting and Evaporation provides engineers, students, and researchers with the first comprehensive guide to the theory and applications of droplet wetting and evaporation. Beginning with a relevant theoretical background, the book moves on to consider specific aspects, including heat transfer, flow instabilities, and the drying of complex fluid droplets. Each chapter covers the principles of the subject, addressing corresponding practical issues and problems. The text is ideal for a broad range of domains, from aerospace and materials, to biomedical applications, comprehensively relaying the challenges and approaches from the different communities leading the way in droplet research and development. Provides a broad, cross-subject coverage of theory and application that is ideal for engineers, students and researchers who need to follow all major developments in this interdisciplinary field Includes comprehensive discussions of heat transfer, flow instabilities, and the drying of complex fluid droplets Begins with an accessible summary of fundamental theory before moving on to specific areas such as heat transfer, flow instabilities, and the drying of complex fluid droplets

[Microsupercapacitors](#) - Kazufumi Kobashi 2021-10-15

Microsupercapacitors systematically guides the reader through the key materials, characterization techniques, performance factors and potential applications and benefits to society of this emerging electrical energy storage solution. The book reviews the technical challenges in scaling down supercapacitors, covering materials, performance, design and applications perspectives. Sections provide a fundamental understanding of microsupercapacitors and compare them to existing energy storage technologies. Final discussions consider the factors that impact performance, potential tactics to improve performance, barriers to implementation, emerging solutions to those barriers, and a future outlook. This book will be of particular interest to materials scientists and engineers working in academia, research and development. Provides a concise introduction of the fundamental science, related technological challenges, and solutions that microsupercapacitors can offer Compares microsupercapacitors with current technologies Reviews the applications of new strategies and the challenge of scaling down supercapacitors Covers the most relevant applications, including energy storage, energy harvesting, sensors and biomedical devices

[The Chemistry of Inorganic Biomaterials](#) - Christopher Spicer 2021-08-18

This book overviews the underlying chemistry behind the most common and cutting-edge inorganic materials in current use, or approaching use, in vivo.

Business Model Generation - Alexander Osterwalder 2013-02-01

Business Model Generation is a handbook for visionaries, game changers, and challengers striving to defy outmoded business models and design tomorrow's enterprises. If your organization needs to adapt to harsh new realities, but you don't yet have a strategy that will get you out in front of your competitors, you need Business Model Generation. Co-created by 470 "Business Model Canvas" practitioners from 45 countries, the book features a beautiful, highly visual, 4-color design that takes powerful strategic ideas and tools, and makes them easy to implement in your organization. It explains the most common Business Model patterns, based on concepts from leading business thinkers, and helps you reinterpret them for your own context. You will learn how to systematically understand, design, and implement a game-changing business model--or analyze and renovate an old one. Along the way, you'll understand at a much deeper level your customers, distribution channels, partners, revenue streams, costs, and your core value proposition. Business Model Generation features practical innovation techniques used today by leading consultants and companies worldwide, including 3M, Ericsson, Capgemini, Deloitte, and others. Designed for doers, it is for those ready to abandon outmoded thinking and embrace new models of value creation: for executives, consultants, entrepreneurs, and leaders of all organizations. If you're ready to change the rules, you belong to "the business model generation!"

[Advanced Materials for Printed Flexible Electronics](#) - Colin Fong 2021-10-04

This book provides a comprehensive introduction to printed flexible electronics and their applications, including the basics of modern printing technologies, printable inks, performance characterization, device design, modeling, and fabrication processes. A wide range of materials used for printed flexible electronics are also covered in depth. Bridging the gap between the creation of structure and function, printed flexible electronics have been explored for manufacturing of flexible, stretchable, wearable, and conformal electronics device with conventional, 3D, and hybrid printing technologies. Advanced materials such as polymers, ceramics, nanoparticles, 2D materials, and nanocomposites have enabled a wide variety of applications, such as transparent conductive films, thin film transistors, printable solar cells, flexible energy harvesting and storage devices, electroluminescent devices, and wearable sensors. This book provides students, researchers and engineers with the information to understand the current status and future trends in printed flexible electronics, and acquire skills for selecting and using materials and additive manufacturing processes in the design of printed flexible electronics.

[No Plastic Sleeves](#) - Larry Volk 2020-10-28

A polished and professional portfolio—including both print pieces and an online presence—is more important than ever for photographers, graphic designers, and other creative professionals to make a great first impression and secure employment. This new third edition of No Plastic Sleeves has been thoroughly updated across all facets of portfolio production, including increased coverage on self-promotion, social media, branding, online promotion, new and updated interviews, case studies, and more. Including hundreds of photos, examples of successful design from both students and professionals, and interviews with industry professionals, this text will guide you through the complete process of conceptualizing, designing, developing, branding, and promoting all the interconnected aspects of your total portfolio package, including teaching you how to: Objectively evaluate and edit your work Develop a distinguishing brand concept and identity Understand and apply effective design strategies, including layout and sequencing Design a tailor-made portfolio book Develop a comprehensive online portfolio Develop printed promotional and professional materials Utilize social media and self-promotion strategies Alongside the acclaimed companion website, www.noplasticsleeves.com—featuring additional portfolios, resources, tutorials, and articles—Larry Volk and Danielle Currier offer an essential guide to portfolio design, development, and promotion.

Inkjet-Configurable Gate Array - Mohammad Mashayekhi 2017-12-29

This thesis reports on an outstanding research advance in the development of Application Specific Printed Electronic (ASPE) circuits. It proposes the novel Inkjet-Configurable Gate Array (IGA) concept as a design-manufacturing method for the direct mapping of digital functions on top of new prefabricated structures. The thesis begins by providing details on the generation of the IGA bulk, and subsequently presents Drop-on-Demand configurable methodologies for the metallization of IGAs. Lastly, it demonstrates IGAs' suitability for personalization and yield improvement, and reports on the integration of various circuits into

IGA bulk. In addition to highlighting novel results, the thesis also offers a comprehensive introduction to printed electronics, from technology development, to design methods, tools and kits.

Stereoscopic Cinema and the Origins of 3-D Film, 1838-1952 - Ray Zone 2014-04-23

From stereoview cards to large-format IMAX films, 3-D technology's heightened realism and powerful visual allure have held audiences captive for over a century and a half. The technology, known as stereoscopy, creates an illusion of depth by presenting two slightly different images to the eye in print or on-screen. The advent of stereoscopic film technology excited both filmmakers and audiences, as a means of replicating all of the sounds, colors, movement, and dimensionality of life and nature for the first time. The origins of 3-D film are often linked with a proliferation of stereoscopic films in the 1950s. By the time films like *Man in the Dark* and *House of Wax* was attracting large crowds, however, the technology behind this form of filmmaking was already over a century old. *Stereoscopic Cinema and the Origins of 3-D Film, 1838--1952*, examines this "novelty period" of stereoscopic film, charting its progression from Charles Wheatstone's 1938 discovery of 3-D to the 1952 release of Arch Oboler's innovative film, *Bwana Devil*. Stereoscopic specialist Ray Zone argues that the development of stereoscopic film can best be understood through a historical analysis of the technology rather than of its inventors. Zone examines the products used to create stereoscopic images, noting such milestones as David Brewster's and Oliver Wendell Holmes's work with stereoscopes, the use of polarizing image selection, and the success of twin-strip 3-D films, among others. In addition, Zone looks at the films produced up to 1952, discussing public reception of early 3-D short films as well as longer features such as *Power of Love* in single-strip anaglyphic projection in 1922 and Semyon Ivanov's 1941 autostereoscope *Robinson Crusoe*. He integrates his examination of the evolution of 3-D film with other cinematic developments, demonstrating the connection between stereoscopic motion pictures and modern film production. *Stereoscopic Cinema and the Origins of 3-D Film, 1838--1952*, is an exhaustive study of not only the evolution of 3-D technology and the subsequent filmmaking achievements but also the public response to and cultural impact of 3-D movies. Zone takes the reader on a voyage of discovery into the rich history of a field that predates photography and that continues to influence television and computer animation today.

Liminal Spaces: Migration and Women of the Guyanese Diaspora - Grace Aneiza Ali 2020-09-29

Liminal Spaces is an intimate exploration into the migration narratives of fifteen women of Guyanese heritage. It spans diverse inter-generational perspectives - from those who leave Guyana, and those who are left - and seven seminal decades of Guyana's history - from the 1950s to the present day - bringing the voices of women to the fore. The volume is conceived of as a visual exhibition on the page; a four-part journey navigating the contributors' essays and artworks, allowing the reader to trace the migration path of Guyanese women from their moment of departure, to their arrival on diasporic soils, to their reunion with Guyana. Eloquent and visually stunning, *Liminal Spaces* unpacks the global realities of migration, challenging and disrupting dominant narratives associated with Guyana, its colonial past, and its post-colonial present as a 'disappearing nation'. Multimodal in approach, the volume combines memoir, creative non-fiction, poetry, photography, art and curatorial essays to collectively examine the mutable notion of 'homeland', and grapple with ideas of place and accountability. This volume is a welcome contribution to the scholarly field of international migration, transnationalism, and diaspora, both in its creative methodological approach, and in its subject area - as one of the only studies published on Guyanese diaspora. It will be of great interest to those studying women and migration, and scholars and students of diaspora studies. Grace Aneiza Ali is a Curator and an Assistant Professor and Provost Fellow in the Department of Art & Public Policy, Tisch School of the Arts, New York University. Her curatorial research practice centers on socially engaged art practices, global contemporary art, and art of the Caribbean Diaspora, with a focus on her homeland Guyana.

Three-Dimensional Imaging Techniques - Takanori Okoshi 2012-12-02

Three-Dimensional Imaging Techniques provides an overview of the development and practical applications of three-dimensional imaging techniques. This text deals with holographic and nonholographic techniques, with a focus on efficiency, speckle noise, resolution, white-light reconstruction, white-light recording, and color holography. This book is comprised of nine chapters, wherein Chapter 1 provides a brief history of information media in human society. Chapter 2 presents the history of depth perception and the principle of

the Wheatstone stereoscope, and Chapter 3 examines the construction of human eyes as the most important source of depth perception. Chapter 4 focuses on the optimum design of lens-sheet pictures, whereas Chapters 5 and 6 examine the technical drawbacks that limit the versatility in three-dimensional imaging technology. The features of holographic techniques, such as holographic stereoscreens and computer-generated holograms, are discussed in Chapters 7 and 8. Finally, Chapter 9 discusses the possible classifications based on applications, including microscopy, television, X-ray imaging, movies, and acoustical imaging. This book is intended for electronic engineers, researchers, and readers who are interested in the field of three-dimensional imaging.

Modeling and Measurement Methods for Acoustic Waves and for Acoustic Microdevices - Marco G. Beghi 2013-08-28

Acoustics is a mature field which enjoys a never ending youth. New developments are induced by either the search for a better understanding, or by technological innovations. Micro-fabrication techniques introduced a whole new class of microdevices, which exploit acoustic waves for various tasks, and in particular for information processing and for sensing purposes. Performance improvements are achievable by better modelling tools, able to deal with more complex configurations, and by more refined techniques of fabrication and of integration in technological systems, like wireless communications. Several chapters of this book deal with modelling and fabrication techniques for microdevices, including unconventional phenomena and configurations. But this is far from exhausting the research lines in acoustics. Theoretical analyses and modelling techniques are presented, for phenomena ranging from the detection of cracks to the acoustics of the oceans. Measurement methods are also discussed, which probe by acoustic waves the properties of widely different systems.

Digital Halftoning - Robert Ulichney 1987

Along with text and graphics, images are fast becoming a generic data type for general-purpose computer systems. This poses new problems for the systems designer, who must be able to preprocess digital image data for a wide variety of video and hard copy displays. Digital halftoning, the method by which the illusion of continuous-tone images are created through the arrangement of binary picture elements, is a key component of any preprocessing. Digital halftoning addresses the problem of developing algorithms that best match the specific parameters of any target display device. It is the first significant study of the process of producing quality images on practical computer displays. To aid the systems designer, Ulichney devises the concept of blue noise - which has many desirable properties for halftoning - and suggests efficient algorithms for its use. He also introduces new metrics for analyzing the frequency content of periodic and aperiodic patterns for both rectangular and hexagonal grids, and presents a unique "aspect ratio immunity" argument in favor of hexagonal grids. Included are several carefully selected digitally-produced images. Robert Ulichney is Principle Engineer with the Digital Equipment Corporation.

Computational Color Imaging - Shoji Tominaga 2019-03-19

This book constitutes the refereed proceedings of the 7th Computational Color Imaging Workshop, CCIW 2019, held in Chiba, Japan, in March 2019. The 22 full papers presented in this volume were carefully reviewed and selected from 34 submissions. The papers are organized in topical sections named: computational color imaging; multispectral imaging; perceptual model and application; color image evaluation; color image filtering; color image applications; and color imaging for material appearance. In addition, the book contains 3 invited talks in full paper length.

Image Science - W. J. T. Mitchell 2018-01-30

Almost thirty years ago, W.J.T. Mitchell's 'Iconology' helped launch the interdisciplinary study of visual media, now a central feature of the humanities. Mitchell's now-classic work introduced such ideas as the pictorial turn, the image/picture distinction, the metapicture, and the biopicture. These key concepts imply an approach to images as true objects of investigation - an 'image science.' Continuing with this influential line of thought, 'Image Science' gathers Mitchell's most recent essays on media aesthetics, visual culture, and artistic symbolism. The chapters delve into such topics as the physics and biology of images, digital photography and realism, architecture and new media, and the occupation of space in contemporary popular uprisings.

Gold Nanostars - Giuseppe Chirico 2015-08-03

This Brief focuses on the synthesis, functionalization techniques, optical properties and biomedical application of gold nanostars (GNS). Various facilities of gold nanostars synthesis as well as functionalization of GNS with PEG, organic dyes, bioactive compounds are discussed. The authors discuss physical origin of the Localized Surface Plasmon Resonances and the way the nano-environment affects them. The implication of the LSPR of gold nanostars surface enhanced Raman scattering is also discussed. The emphasis has been done on the application of GNS for current and emerge needs of medicine, biology and pharmacy. Moreover, properties of gold nanostars as contrast agents for in vivo imaging and interaction of GNS with cells are also discussed in this Brief.

Fundamentals of Inkjet Printing - Stephen D. Hoath 2016-03-14

From droplet formation to final applications, this practical book presents the subject in a comprehensive and clear form, using only content derived from the latest published results. Starting at the very beginning, the topic of fluid mechanics is explained, allowing for a suitable regime for printing inks to subsequently be selected. There then follows a discussion on different print-head types and how to form droplets, covering the behavior of droplets in flight and upon impact with the substrate, as well as the droplet's wetting and drying behavior at the substrate. Commonly observed effects, such as the coffee ring effect, are included as well as printing in the third dimension. The book concludes with a look at what the future holds. As a unique feature, worked examples both at the practical and simulation level, as well as case studies are included. As a result, students and engineers in R&D will come to fully understand the complete process of inkjet printing.

The Emperor of All Maladies - Siddhartha Mukherjee 2011-08-09

An assessment of cancer addresses both the courageous battles against the disease and the misperceptions and hubris that have compromised modern understandings, providing coverage of such topics as ancient-world surgeries and the development of present-day treatments. Reprint. Best-selling winner of the Pulitzer Prize. Includes reading-group guide.

Way Beyond Monochrome 2e - Ralph Lambrecht 2013-05-02

An inspirational bible for monochrome photography - this second edition almost doubles the content of its predecessor showing you the path from visualization to print

Theoretical Foundations and Application of Photonic Crystals - Alexander Vakhrushev 2018-04-04

This book is devoted to the description of research and design of photonic crystals. Topics included in the book cover a wide range of research in the field of theoretical analysis and experimental investigation: the electromagnetic field in the photonic crystal, propagation of waves in the gyrotropic magnetophotonic crystals, low one-photon absorption, ultratransparent photonic crystals, colloidal assembly, photonic crystal application for development of all-optical computational system, design strategies for PC devices, self-organization of liquid crystalline nanostructures, and optical diodes. This book will be useful for engineers, technologists, researchers, and postgraduate students interested in the research, design, fabrication processes, and applications of photonic crystals.

Your Inner Fish Neil Shubin 2008-01-15

Neil Shubin, the paleontologist and professor of anatomy who co-discovered Tiktaalik, the "fish with hands," tells the story of our bodies as you've never heard it before. The basis for the PBS series. By examining fossils and DNA, he shows us that our hands actually resemble fish fins, our heads are organized like long-extinct jawless fish, and major parts of our genomes look and function like those of worms and bacteria. Your Inner Fish makes us look at ourselves and our world in an illuminating new light. This is science writing at its finest—enlightening, accessible and told with irresistible enthusiasm.

Printed Batteries - Senentxu Lanceros-Méndez 2018-04-23

Offers the first comprehensive account of this interesting and growing research field Printed Batteries: Materials, Technologies and Applications reviews the current state of the art for printed batteries, discussing the different types and materials, and describing the printing techniques. It addresses the main applications that are being developed for printed batteries as well as the major advantages and remaining challenges that exist in this rapidly evolving area of research. It is the first book on printed batteries that seeks to promote a deeper understanding of this increasingly relevant research and application area. It is written in a way so as to interest and motivate readers to tackle the many challenges that lie ahead so that

the entire research community can provide the world with a bright, innovative future in the area of printed batteries. Topics covered in Printed Batteries include, Printed Batteries: Definition, Types and Advantages; Printing Techniques for Batteries, Including 3D Printing; Inks Formulation and Properties for Printing Techniques; Rheological Properties for Electrode Slurry; Solid Polymer Electrolytes for Printed Batteries; Printed Battery Design; and Printed Battery Applications. Covers everything readers need to know about the materials and techniques required for printed batteries Informs on the applications for printed batteries and what the benefits are Discusses the challenges that lie ahead as innovators continue with their research Printed Batteries: Materials, Technologies and Applications is a unique and informative book that will appeal to academic researchers, industrial scientists, and engineers working in the areas of sensors, actuators, energy storage, and printed electronics.

Perceiving in Depth, Volume 2 - Ian P. Howard 2012-02-24

"The proposed three volumes are the latest installment in Ian Howard's amazing ongoing project of providing the most comprehensive review available anywhere of all aspects of how humans and animals perceive and navigate the three-dimensional world. The current book set is even more complete in its coverage than the two previous editions have been. With 37 chapters, 1800 illustrations, and 8,000 references, it covers psychophysics, coding, physiology, development of systems and functions, results of deprivation, accommodation, physiology of disparity, binocular fusion and rivalry, binocular correspondence and the horopter, linking binocular images, cyclopean perception, stereo acuity, uses of disparity, stereopsis and perceptual organization, the Pulfrich effect, stereoscopic techniques and applications, distinguishing depth from vergence, perspective, shading, and motion parallax, constancies in visual depth perception, cue integrations, motion in depth, pathology of visual depth perception, animal depth perception, feeling, reaching, and moving, auditory distance perception, electrolocation and the thermal senses, as well as comprehensive coverage of animal navigation that could be a book on its own. Ian Howard's books have become landmarks in the field of vision science, and this current project will definitely maintain the tradition for researchers in space perception, visual neuroscience, ophthalmology, optometry, visual development, animal vision, and computational vision"--

Fundamentals of Light Microscopy and Electronic Imaging - Douglas B. Murphy 2012-08-22

Fundamentals of Light Microscopy and Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website: www.wiley.com/go/murphy/lightmicroscopy

Information Technology in Construction Design Mjhael Phiri 1999

Part 1: Introduction - Background - Text - Graphics - Images - Manipulation - Facilities management - Financial accounting and modelling - Database activities - Data manipulation and Statistical analysis - CAD/CAM/CAE and multi-media - Telecommunications and networks Part 2: Case studies of organisations - Architectural and engineering practices including some of the biggest names in the industry in the UK; covering different sizes, structures, philosophies, working methodologies, and different services offered to clients in different markets Part 3: Conclusions - Comments about IT in action - Emerging views - Future developments

Industrial Photoinitiators - W. Arthur Green 2010-04-22

The use of photoinitiators in the UV curing process shows remarkable possibilities in myriad applications. Highlighting critical factors such as reactivity, cure speeds, and application details, Industrial Photoinitiators: A Technical Guide is a practical, accessible, industrially oriented text that explains the

theory, describes the products, and

Electrochromic Smart Materials - Jian Wei Xu 2019-01-04

Electrochromic devices have a wide range of applications, including displays, self-dimming mirrors for automobiles, electrochromic e-skins, textiles, and smart windows for energy-efficient buildings. This title covers major topics related to the phenomenon of electrochromism, highlighting a broad range of existing and potential applications of electrochromic materials and devices. Providing a comprehensive overview of the field, it will be of interest to postgraduate students and researchers in both academia and industry interested in smart design, materials science and engineering.

Ubiquity - Jacob W. Lewis 2021-12-15

From its invention to the internet age, photography has been considered universal, pervasive, and omnipresent. This anthology of essays posits how the question of when photography came to be everywhere shapes our understanding of all manner of photographic media. Whether looking at a portrait image on the polished silver surface of the daguerreotype, or a viral image on the reflective glass of the smartphone, the experience of looking at photographs and thinking with photography is inseparable from the idea of ubiquity—that is, the apparent ability to be everywhere at once. While photography's distribution across

cultures today is undeniable, the insidious logics and pervasive myths that have governed its spread demand our critical attention, now more than ever.

Fundamentals and Emerging Applications of Polyaniline Masoud Mozafari 2019-08-09

Fundamentals and Emerging Applications of Polyaniline presents in-depth coverage of synthetic routes, characterization tools, experimental procedures, and the preparation of PANI-based materials for advanced applications. Sections examine the various synthetic routes available for the polymerization of aniline, covering both conventional methods and new approaches, specific PANI-based materials, and their potential applications. Users will be able to understand how to use these methods in areas such as electromagnetic interference shielding, rechargeable batteries, light emitting diodes, super capacitors, anti-static packaging and coatings, photonics, biomedical applications, chemical and biochemical sensors. This is a highly valuable source of information for researchers, scientists and graduate students in polymer science, polymer composites, polymer chemistry, nanotechnology, physics and materials science. Covers the latest synthetic approaches, such as ultrasound-assisted polymerization, irradiation path and electrochemical polymerization Offers detailed information on PANI-based composites, including graphene, CNT and functionalized polyaniline Explains how different PANI-based materials can be geared for specific cutting-edge applications across a range of fields